

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : High Temp Coating Satin Black
 Supplier Product Numbers : 10393Z

1.2 Other Means of Identification

Other Identifiers : Not Available

1.3 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use : High temp coating for exhaust manifolds and headers
 Restrictions on Use : None Identified

1.4 Supplier Details

Supplier Details	
Company Name	The Easthill Group, Inc./The Eastwood Company
Address	263 Shoemaker Road, Pottstown, PA 19464 - United States
Phone Number	800-343-9353
Website	www.eastwood.com

1.5 24 hr Emergency Phone Number

Emergency Number : 800-424-9300 Chem Trec

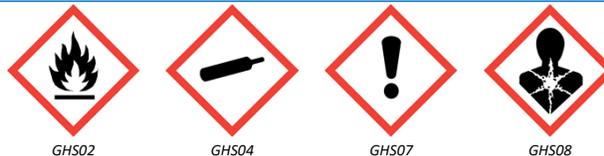
SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Flam. Aerosol 1	H222	Physical Hazards	Flammable aerosol Category 1
Press. Gas (Diss.)	H280	Physical Hazards	Gases under pressure Dissolved gas
Eye Irrit. 2	H319	Health Hazards	Serious eye damage/eye irritation Category 2
Repr. 2	H361	Health Hazards	Reproductive toxicity Category 2
Stot Se 3	H336	Health Hazards	Specific target organ toxicity (single exposure) Category 3
Stot Re 2	H373	Health Hazards	Specific target organ toxicity (repeated exposure) Category 2
Aquatic Acute 3	H402	Environmental Hazards	Hazardous to the aquatic environment - Acute Hazard Category 3

2.2 Label Elements

Hazard Pictograms



Signal Word

Danger

Hazard Statements

H222 : Extremely flammable aerosol
 H280 : Contains gas under pressure; may explode if heated
 H319 : Causes serious eye irritation
 H336 : May cause drowsiness or dizziness
 H361 : Suspected of damaging fertility or the unborn child
 H373 : May cause damage to organs through prolonged or repeated exposure
 H402 : Harmful to aquatic life

SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

Print Date: 7/25/2018
Revision Date: 7/25/2018
Supersedes Date: 12/1/2015
Issue Date: 3/3/2014
Version: 3.0 (EN)-US
Page: 2/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Precautionary Statements	<i>P202</i>	: Do not handle until all safety precautions have been read and understood.
	<i>P210</i>	: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	<i>P211</i>	: Do not spray on an open flame or other ignition source.
	<i>P251</i>	: Pressurized container: Do not pierce or burn, even after use.
	<i>P260</i>	: Do not breathe spray.
	<i>P264</i>	: Wash hands thoroughly after handling.
	<i>P271</i>	: Use only outdoors or in a well-ventilated area.
	<i>P273</i>	: Avoid release to the environment.
	<i>P280</i>	: Wear protective gloves and eye protection.
	<i>P304+P340</i>	: If inhaled: Remove person to fresh air and keep comfortable for breathing
	<i>P305+P351+P338</i>	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	<i>P308+P313</i>	: If exposed or concerned: Get medical advice/attention.
	<i>P314</i>	: Get medical advice/attention if you feel unwell.
	<i>P337+P313</i>	: If eye irritation persists: Get medical advice/attention.
	<i>P403</i>	: Store in a well-ventilated place.
	<i>P410+P412</i>	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	<i>P501</i>	: Dispose of contents/container to local regulations

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

2.4 Unknown acute toxicity

43.87% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
49.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
8.87% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : Mixture

3.2 Composition

Substance name	CAS Number	% wt*	Classification
Dimethyl Ether	115-10-6	30 - 60	Flam. Gas 1, H220 Press. Gas (Diss.), H280
N-Butyl Acetate	123-86-4	10 - 30	Flam. Liq. 2, H225 STOT SE 3, H336 Aquatic Acute 3, H402
Acetone	67-64-1	5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Propylene Glycol Monomethyl Ether Acetate	108-65-6	5 - 10	Flam. Liq. 3, H226
Toluene	108-88-3	5 - 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Methyl Acetate	79-20-9	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 - FIRST-AID MEASURES

SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

Print Date: 7/25/2018
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Supersedes Date: 12/1/2015
Issue Date: 3/3/2014
Version: 3.0 (EN)-US
Page: 3/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.1 Description of First-Aid Measures

General Measures	: If exposed or concerned: Get medical advice/attention.
Inhalation	: Remove person to fresh air and keep comfortable for breathing.
Skin Contact	: Wash skin with plenty of water.
Eye Contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	: Call a poison center or a doctor if you feel unwell.
First-Aid Responder Protection	: Wear adequate personal protective equipment based on the nature and severity of the emergency.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms of Exposure	: Eye Irritation, Nose Irritation, Throat Irritation, Dermatitis, Central Nervous System Depression, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Chest Tightness, Mucous Membrane.
Delayed Effects	: No known delayed effects.
Immediate Effects	: No known immediate effects.
Chronic Effects	: Methyl alcohol may be fatal or cause blindness if swallowed. Because of defatting properties, repeated skin contact can cause skin damage such as chap, dermatitis, inflammation and the formation of eczema.
Target Organs	: Central Nervous System, Eyes, Gastrointestinal Tract, Liver, Reproductive System, Respiratory System, Skin, Kidneys.

4.3 Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	: Treat symptomatically.
Specific Treatments/Antidotes	: No Information Available.
Medical Conditions Aggravated	: May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Extinguishing Media	: Water, carbon dioxide, dry chemical, universal aqueous film forming foam.
Unsuitable Media	: Water jet.

5.2 Specific Hazards Arising from the Chemical or Mixture

Hazardous Combustion Products	: Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6.
Specific Hazards During Firefighting	: Extremely flammable. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapors heavier than air may spread along the ground and travel to an ignition source.

5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions	: Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure.
Protection during Firefighting	: Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel	: No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.
For Emergency Personnel	: Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

6.2 Environmental Precautions

Environmental Precautions	: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
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SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

Print Date: 7/25/2018
 Revision Date: 7/25/2018
 Supersedes Date: 12/1/2015
 Issue Date: 3/3/2014
 Version: 3.0 (EN)-US
 Page: 4/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3 Methods and Materials for Containment and Cleaning up

- Containment Procedures** : Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents.
- Cleanup Procedures** : Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.
- Other Information** : Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned.
- Prohibited Materials** : Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- General Handling Precautions** : KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst.
- Hygiene Recommendations** : Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.

7.2 Conditions for Safe Storage Including Any Incompatibilities

- Storage Requirements** : Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended.
- Incompatibilities** : Segregate storage away from materials indicated in Section 10.
- NFPA 30B Classification** : This product is classified as a Level 2 Aerosol per NFPA 30B

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Dimethyl Ether (115-10-6)

AIHA	WEEL TWA (ppm)	1000 ppm
Manufacturer Recommended	Recommended PEL (TWA) (ppm)	1000 ppm (Dupont AEL)

Propylene Glycol Monomethyl Ether Acetate (108-65-6)

California	California PEL (TWA) (mg/m ³)	541 mg/m ³
California	California PEL (TWA) (ppm)	100 ppm
California	California PEL (STEL) (mg/m ³)	811 mg/m ³
California	California PEL (STEL) (ppm)	150 ppm

Acetone (67-64-1)

ACGIH	ACGIH TWA (mg/m ³)	250 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	500 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	2400 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
NIOSH	US IDLH (ppm)	2500 ppm
NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
California	California PEL (TWA) (mg/m ³)	1200 mg/m ³
California	California PEL (TWA) (ppm)	500 ppm
California	California PEL (STEL) (mg/m ³)	1780 mg/m ³
California	California PEL (STEL) (ppm)	750 ppm
California	California PEL (Ceiling) (ppm)	3000 ppm
Biological Exposure Index	Acetone in urine, End of shift (Ns)	25 mg/l

Methyl Acetate (79-20-9)

ACGIH	ACGIH TWA (mg/m ³)	200 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	250 ppm

SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

Print Date: 7/25/2018
 Revision Date: 7/25/2018
 Supersedes Date: 12/1/2015
 Issue Date: 3/3/2014
 Version: 3.0 (EN)-US
 Page: 5/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Methyl Acetate (79-20-9)		
OSHA	OSHA PEL (TWA) (mg/m ³)	610 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
NIOSH	US IDLH (ppm)	3100 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	610 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	760 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm
California	California PEL (TWA) (mg/m ³)	610 mg/m ³
California	California PEL (TWA) (ppm)	200 ppm
California	California PEL (STEL) (mg/m ³)	760 mg/m ³
California	California PEL (STEL) (ppm)	250 ppm

N-Butyl Acetate (123-86-4)		
ACGIH	ACGIH TWA (mg/m ³)	150 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	200 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	710 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	150 ppm
NIOSH	US IDLH (ppm)	1700 ppm
NIOSH	NIOSH REL (TWA) (ppm)	150 ppm
NIOSH	NIOSH REL (STEL) (ppm)	200 ppm
California	California PEL (TWA) (mg/m ³)	710 mg/m ³
California	California PEL (TWA) (ppm)	150 ppm
California	California PEL (STEL) (mg/m ³)	950 mg/m ³
California	California PEL (STEL) (ppm)	200 ppm

Toluene (108-88-3)		
ACGIH	ACGIH TWA (mg/m ³)	20 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	150 ppm
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
NIOSH	US IDLH (ppm)	500 ppm
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
California	California PEL (TWA) (mg/m ³)	37 mg/m ³
California	California PEL (TWA) (ppm)	10 ppm
California	California PEL (STEL) (mg/m ³)	560 mg/m ³
California	California PEL (STEL) (ppm)	150 ppm
California	California PEL (Ceiling) (ppm)	500 ppm
Biological Exposure Index	Toluene in blood, Prior to last shift of workweek	0.02 mg/l
Biological Exposure Index	Toluene in urine, End of shift	0.03 mg/l
Biological Exposure Index	o-Cresol in urine (with hydrolysis), End of shift (B)	0.3 mg/g creatinine

8.2 Exposure Controls

- | | |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Measures | : Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above. |
| Personal Protective Equipment | : Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended. |
| Eye / Face Protection | : Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended. |
| Hand Protection | : Chemical-resistant gloves, tested according to ASTM F903-17. |
| Remarks | : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work. |
| Skin and Body Protection | : For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2. |
| Respiratory Protection | : An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. |
| Compliance | : If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary. |
| Other Protective Equipment | : Safety showers and eye-wash stations should be available in the workplace near where the material will be used. |
| Environmental Exposure Controls | : Avoid release to the environment. |

SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

Print Date: 7/25/2018
Revision Date: 7/25/2018
Supersedes Date: 12/1/2015
Issue Date: 3/3/2014
Version: 3.0 (EN)-US
Page: 6/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	> 55.60 °C	Melting / Freezing Point	> -114.00 °C
Flash Point, Liquid	> -17.22 °C	Flash Point, Propellant	-42.00 °C
Explosive Limits	LEL: 0.80 UEL: 36.00 vol %	Autoignition Temperature, Liquid	232.00 °C
Flammability	Extremely Flammable Aerosol	Density	0.847 g/cm ³
Molecular Weight	Not Available	Weight	7.068 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBac=1)	Not Available
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical State	Pressurized Product	Heat Of Combustion	9805.46 BTU/lb
Appearance / Color	Black	Water Solubility	Not Available
Odor	Paint-like	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	84.18 % wt	VOC Regulatory	677.76 g/L (5.66 lbs/gal)
Percent VOC	63.53 % wt	VOC Actual	538.12 g/L (4.49 lbs/gal)
Percent HAP	7.98 % wt	HAP Content	67.59 g/L (0.56 lbs/gal)
Global Warming Potential	0.61 GWP	Maximum Incremental Reactivity	0.8900 g O3/g
Ozone Depletion Potential	0.00 ODP		

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : No specific test data related to reactivity is available for this products or its ingredients.

10.2 Chemical Stability

Chemical Stability : This product is stable.

10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

10.4 Conditions to Avoid

Conditions to Avoid : Electrostatic Discharge, Other Ignition Sources, Temperatures above 140°F (60°C), Hot Surfaces, Heat, Flames, Sparks.

10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Strong Reducing Agents, Alkali Metals, Strong Acids, Potassium t-Butoxide, Hydrogen Peroxide, Chromium Trioxide, Potassium Chlorate.

10.6 Hazardous Decomposition Products

Thermal Decomposition : Oxides of carbon, Aldehydes, Formaldehyde, Methanol, Acetic Acid.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Dimethyl Ether (CAS: 115-10-6 / EC: 204-065-8)

LC50 Inhalation (Rat) 164000 ppm/4h (RTECS)

Propylene Glycol Monomethyl Ether Acetate (CAS: 108-65-6 / EC: 203-603-9)

LD50 Oral (Rat) 10000 mg/kg (ChemInfo)

SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

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 Supersedes Date: 12/1/2015
 Issue Date: 3/3/2014
 Version: 3.0 (EN)-US
 Page: 7/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Propylene Glycol Monomethyl Ether Acetate (CAS: 108-65-6 / EC: 203-603-9)

LD50 Dermal (Rabbit)	19200 mg/kg (ChemInfo)
LC50 Inhalation (Rat)	> 5250 ppm/4h (ChemInfo)

Acetone (CAS: 67-64-1 / EC: 200-662-2)

LD50 Oral (Rat)	5800 mg/kg (Sigma-Aldrich)
LD50 Dermal (Rabbit)	20000 mg/kg (IUCLID)
LC50 Inhalation (Rat)	76 mg/l/4h (GESTIS Substance Database)

Methyl Acetate (CAS: 79-20-9 / EC: 201-185-2)

LD50 Oral (Rat)	6970 mg/kg (Lit.)
LD50 Dermal (Rabbit)	> 5000 mg/kg (RTECS)
LC50 Inhalation (Rat)	> 49.28 mg/l/4h (External SDS)
LC50 Inhalation (Rat)	16000 - 32000 (ChemInfo)

N-Butyl Acetate (CAS: 123-86-4 / EC: 204-658-1)

LD50 Oral (Rat)	13100 mg/kg (IUCLID)
LD50 Dermal (Rabbit)	> 14100 mg/kg (IUCLID)
LC50 Inhalation (Rat)	> 21 mg/l/4h (IUCLID)
LC50 Inhalation (Rat)	390 ppm/4h (RTECS)

Toluene (CAS: 108-88-3 / EC: 203-625-9)

LD50 Oral (Rat)	> 2000 mg/kg (Lit.)
LD50 Dermal (Rabbit)	12124 mg/kg (IUCLID)
LC50 Inhalation (Rat)	> 20 mg/l/4h (Lit.)

Routes Of Exposure	: Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.
Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure	: See Section 4.2
Skin Corrosion/Irritation	: Not classified
Eye Damage/Irritation	: Causes serious eye irritation.
Respiratory or Skin Sensitization	: Not classified
Germ Cell Mutagenicity	: Not classified
Reproductive Toxicity	: Suspected of damaging fertility or the unborn child.
STOT-Single Exposure	: May cause drowsiness or dizziness.
STOT-Repeated Exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	: Not classified
Vaporizer	: Aerosol
Carcinogen Data	: None of the ingredients in the product are listed with OSHA, IARC, NTP or ACGIH as being a suspected or known carcinogen in a concentration greater than 0.1% by weight.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

Dimethyl Ether (115-10-6)

Persistence and Degradability	Biodegradability 7% / 28 days.
Log Pow	0.1 (Experimental value; 0.07; QSAR; KOWWIN; 25 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).

Propylene Glycol Monomethyl Ether Acetate (108-65-6)

LC50 Fish	100 ml/l Rainbow Trout - 96hr
EC50 Daphnia	373 mg/l Water Flea - 48hr
EC50 Daphnia	> 1000 mg/l Green Algae - 96hr
Persistence and Degradability	Biodegradability 81% / 28 days.
Biochemical Oxygen Demand	330 mg/g
Chemical Oxygen Demand	1740 mg/g
Theoretical Oxygen Demand	1820 mg/g
Log Pow	0.56
Log Koc	0.36

SAFETY DATA SHEET

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 Supersedes Date: 12/1/2015
 Issue Date: 3/3/2014
 Version: 3.0 (EN)-US
 Page: 8/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acetone (67-64-1)	
LC50 Fish	5540 mg/l Rainbow Trout - 96hr
LC50 Fish	8300 mg/l Bluegill Sunfish - 96h
EC50 Daphnia	8800 mg/l Water Flea - 48hr
Persistence and Degradibility	Biodegradability 90% / 28 days.
Biochemical Oxygen Demand	1.43 g O ₂ /g substance
Chemical Oxygen Demand	1.92 g O ₂ /g substance
Theoretical Oxygen Demand	2.2 g O ₂ /g substance
BCF Fish	0.69
BCF Other Aquatic Organisms	3
Log Pow	-0.24

Methyl Acetate (79-20-9)	
LC50 Fish	250 - 350 mg/l Zebra Fish - 96hr
EC50 Daphnia	1026.7 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	> 120 mg/l Green Algae - 72hr
EC50 Other Aquatic Organisms	6100 mg/l Bacteria - 30min
Persistence and Degradibility	Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil.
Chemical Oxygen Demand	1511.8 mg/g
Theoretical Oxygen Demand	1510 mg/g
Biodegration	70 % 28 Days
BCF Fish	< 1 (BCF)
Log Pow	0.18
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	0.68

n-Butyl Acetate (123-86-4)	
LC50 Fish	62 mg/l Golden Orfe - 96hr
LC50 Fish	18 mg/l Fathead Minnow - 96h
EC50 Daphnia	72.8 mg/l Water Flea - 24hr
EC50 Other Aquatic Organisms	675 mg/l Green Algae - 72hr
EC50 Other Aquatic Organisms	959 mg/l Bacteria - 18hr
Persistence and Degradibility	Biodegradability 88% / 28 days.
Biochemical Oxygen Demand	520 mg/g
Chemical Oxygen Demand	2320 mg/g
Theoretical Oxygen Demand	2207 mg/g
Log Pow	1.804
Log Koc	2.35

Toluene (108-88-3)	
LC50 Fish	5.8 mg/l Rainbow Trout - 96hr
LC50 Other Aquatic Organisms	10 mg/l Green Algae - 72hr
EC50 Daphnia	6 mg/l Water Flea - 48hr
Persistence and Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Biochemical Oxygen Demand	2.15 g O ₂ /g substance
Chemical Oxygen Demand	2.52 g O ₂ /g substance
Theoretical Oxygen Demand	3.13 g O ₂ /g substance
Biodegration	86 % 28 Days
Log Pow	2.73 (Experimental Value)
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	2.15

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Waste Disposal** : Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.
- Waste Disposal Of Packaging** : In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR

SAFETY DATA SHEET

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Print Date: 7/25/2018
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Supersedes Date: 12/1/2015
Issue Date: 3/3/2014
Version: 3.0 (EN)-US
Page: 9/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

Landfill Precautions : Not Available.
Incineration Precautions : **** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **.**

SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN Number	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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UN Number	UN1950	UN1950	UN1950
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14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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UN Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity
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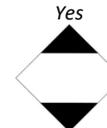
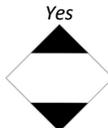
14.3 Transport Hazard Class(es)	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Transport Hazard Class(es)	2.1	2.1	2.1
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Labels	None	2.1 - Flammable gas	None
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Limited Quantity	Yes	Yes	Yes
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EmS Code	Not Applicable	Not Applicable	F-D, S-U
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14.4 Packing Group	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Packing Group	None	None	None
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14.5 Environmental Hazards	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Marine Pollutant	No	No	No
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14.6 Special Precautions	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Precautions	None Identified		
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14.7 Transport in Bulk	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Remarks	Not applicable for product as supplied		
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SECTION 15 - REGULATORY INFORMATION

15.1 Federal Regulations	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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SARA Section 313 : Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Chemical Name	CAS-No.	Concentration
Methanol	67-56-1	< 1%
Ethyl Benzene	100-41-4	< 1%
Xylene	1330-20-7	< 1%
Toluene	108-88-3	5 - 10%

TSCA Section 12(b) : This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

CERCLA Reportable Quantity : Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity

Acetone	CAS-No. 67-64-1	5000 lb
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SAFETY DATA SHEET

Part No. 10393Z (Aerosol)

Print Date: 7/25/2018
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Version: 3.0 (EN)-US
Page: 10/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Methanol	CAS-No. 67-56-1	5000 lb
Isobutyl Alcohol	CAS-No. 78-83-1	5000 lb
Ethyl Benzene	CAS-No. 100-41-4	1000 lb
Xylene	CAS-No. 1330-20-7	100 lb
Toluene	CAS-No. 108-88-3	1000 lb

**SARA Section 311/312 Hazard Classes
TSCA Inventory (United States)**

- : Immediate (acute) health hazard, Fire hazard, Delayed (chronic) health hazard.
- : All chemical substances in this product are either listed on the Toxic Substances Control Act (TSCA) Inventory or are in compliance with a TSCA Inventory exemption.

15.2 State Regulations

California Proposition 65

- : This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Chemical	Hazard	Yes	No
Ethyl Benzene (100-41-4)	Cancer	Yes	0.04 %
Methanol (67-56-1)	Developmental Toxicity	Yes	0.4 %
Toluene (108-88-3)	Developmental Toxicity	Yes	7.5 %
Ethyl Benzene (100-41-4)	No significance risk level (NSRL)	54 µg/day	
Toluene (108-88-3)	No significance risk level (NSRL)	7000 µg/day	

State Right-to-Know Lists

- : The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

Dimethyl Ether (115-10-6)	U.S. - New Jersey - Right to Know Hazardous Substance List
Acetone (67-64-1)	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Dimethyl Carbonate (616-38-6)	U.S. - New Jersey - Right to Know Hazardous Substance List
Methyl Acetate (79-20-9)	U.S. - New Jersey - Right to Know Hazardous Substance List
Methanol (67-56-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Isobutyl Alcohol (78-83-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Ethyl Benzene (100-41-4)	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Ethanol (64-17-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
Xylene (1330-20-7)	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Toluene (108-88-3)	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 - OTHER INFORMATION

Indication of changes

Section	Changed item	Change
1	Supersedes	Added
1	SDS US Regulation reference	Added
1	Revision date	Modified
1	Date of issue	Modified
2.1	GHS-US classification	Added
2.2	Precautionary statements (GHS-US)	Added
2.2	Hazard statements (GHS-US)	Added
2.2	Hazard pictograms (GHS-US)	Added
2.3	Other hazards not contributing to the classification	Added
4	Symptoms/effects after skin contact	Added
4	Symptoms/effects after ingestion	Added
4	Symptoms/effects after eye contact	Added
4	Symptoms/effects	Added
4	Symptoms/effects after inhalation	Added
4	Other medical advice or treatment	Added
4.1	First-aid measures general	Added
4.1	First-aid measures after skin contact	Added
4.1	First-aid measures after ingestion	Added
4.1	First-aid measures after eye contact	Added
4.1	First-aid measures after inhalation	Added
7.2	NFPA 30B Classification	Added
8.2	Compliance	Added

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 Version: 3.0 (EN)-US
 Page: 11/11

Satin Black Hi-Temp Coating

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2	Remarks	Added
8.2	Hand Protection	Added
8.2	Environmental Exposure Controls	Added
8.2	Respiratory Protection	Added
8.2	Other Protective Equipment	Added
8.2	Eye / Face Protection	Added
8.2	Skin and Body Protection	Added
8.2	Engineering Measures	Added
8.2	Appropriate engineering controls	Added
9	Explosive properties	Added
9	Relative vapor density at 20 °C	Added
9	Appearance	Added
9	Flash point	Added
9	Explosive limits (vol %)	Added
9	Boiling point	Added
9	Melting point	Added
9	Auto-ignition temperature	Added
9	Gas group	Added
10	Conditions to avoid	Added
10	Incompatibilities	Added
10	Decomposition Products due to Fire	Added
10	Hazardous decomposition products	Added
14	User Precautions	Added
14	EmS Code (Column 15 in IMDG Book 2)	Added
15	Select the Appropriate Proposition 65 Notice	Added
15	Display TSCA summary in 15.1	Added
15	Display SARA 313 summary in 15.1	Added
15	Display California Proposition 65 summary in 15.3	Added

Full Text of H-Statements

H Code	H Phrase
H220	<i>Extremely flammable gas</i>
H225	<i>Highly flammable liquid and vapour</i>
H226	<i>Flammable liquid and vapour</i>
H280	<i>Contains gas under pressure; may explode if heated</i>
H304	<i>May be fatal if swallowed and enters airways</i>
H315	<i>Causes skin irritation</i>
H319	<i>Causes serious eye irritation</i>
H336	<i>May cause drowsiness or dizziness</i>
H361	<i>Suspected of damaging fertility or the unborn child</i>
H373	<i>May cause damage to organs through prolonged or repeated exposure</i>
H401	<i>Toxic to aquatic life</i>
H402	<i>Harmful to aquatic life</i>

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